## Listing of Claims

- 1. 7. (Canceled)
- 8. A method for treating water, sediment, or soil containing pollutants by the step of contacting the pollutant containing water, sediment, fractured rock, or soil with a multifunctional sequestration agent comprising bauxite in its relatively natural form.
- 9. The method according to claim 8, wherein said multi-functional sequestration agent is formed into a permeable vertical barrier.
- 10. The method according to claim 8, wherein said multi-functional sequestration agent is formed into a permeable horizontal barrier or cap.
- 11. The method according to claim 8, wherein said multi-functional sequestration agent is mixed with the environmental media to be cleaned.
- 12. A method for removing or inactivating microorganisms in an emission or in the environment comprising contacting the microorganism with a mineral selected from bauxite, copper ores, and mixtures thereof.
- 13. The method according to claims 8 or 12 wherein said bauxite is crushed.
- 14. The method according to claims 8 or 12 wherein said bauxite is granular.
- 15. The method according to claims 8 or 12 wherein said bauxite is a powder.
- 16. The method according to claims 8 or 12 wherein said bauxite is installed as a subsurface mineral ore barrier.

- 17. The method according to claims 8 or 12 wherein said bauxite is in a permeable barrier.
- 18. The method according to claim 17, wherein said permeable barrier is installed in the path of groundwater flow.
- 19. The method according to claims 8 or 12 wherein said water is groundwater.
- 20. The method according to claims 8 or 12 wherein said water is surface water.
- 21. The method according to claims 8 or 12 wherein said contacting is by mixing said bauxite with said water, sediment, fractured rock, or soil.
- 22. The method according to claim 8, wherein the pollutant is a heavy metal.
- 23. A sequester for treating water, sediment, fractured rock, or soil containing heavy metals comprising: bauxite in its relatively natural form mixed with said water, sediment, or soil.
- 24. The sequester according to claim 23, wherein said bauxite comprises granulated or powdered bauxite.
- 25. A permeable barrier for preventing migration of pollutants comprising:
  a multi-functional sequestration agent comprising bauxite in its relatively natural form.
- 26. The permeable barrier according to claim 25, wherein said bauxite comprises granulated or powdered bauxite.